FORM PTO-1390 (Modified) U.S. PATENT AND TRADEMARK OFFICE; U.S. DEPARTMENT OF COMMERCE (REV. 2-2005)	ATTORNEY'S DOCKET NUMBER
TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371	270749US6PCT
	U.S. APPLICATION NO. (If known, see 37 CFR 1.5) **10/538296**

INTERNATIONAL APPLICATION NO. PCT/JP03/15531	INTERNATIONAL FILING DATE 4 DECEMBER 2003	PRIORITY DATE CLAIMED 12 DECEMBER 2002

TITLE OF INVENTION

HEAT TRANSPORT APPARATUS AND HEAT TRANSPORT APPARATUS MANUFACTURING METHOD

APPLICANT(S) FOR DO/EO/US

Minehiro TONOSAKI, et al.

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a submission under 35 U.S.C. 371.

2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a submission under 35 U.S.C. 371.

3. ☒ This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (24) indicated below.

4. ☐ The US has been elected (Article 31).

5. ☒ A copy of the International Application as filed (35 U.S.C. 371 (c)(2))

    a. ☐ is attached hereto (required only if not communicated by the International Bureau).

    b. ☒ has been communicated by the International Bureau.

    c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).

6. ☒ An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).

    a. ☒ is attached hereto.

    b. ☐ has been previously submitted under 35 U.S.C. 154(d)(4).

7. ☒ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3))

    a. ☐ are attached hereto (required only if not communicated by the International Bureau).

    b. ☐ have been communicated by the International Bureau.

    c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.

    d. ☒ have not been made and will not be made.

8. ☐ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).

9. ☒ An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)).

10. ☐ An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)).

11. ☐ A copy of the International Preliminary Examination Report (PCT/IPEA/409).

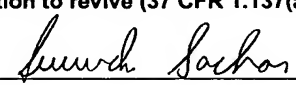12. ☒ A copy of the International Search Report (PCT/ISA/210).

Items 13 to 23 below concern document(s) or information included:

13. ☒ An Information Disclosure Statement under 37 CFR 1.97 and 1.98..

14. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.

15. ☐ A **FIRST** preliminary amendment.

16. ☐ A **SECOND** or **SUBSEQUENT** preliminary amendment.

17. ☐ A substitute specification.

18. ☒ A power of attorney and/or change of address letter.

19. ☐ A computer-readable form of the sequence listing in accordance with PCT Rule 13*ter*.2 and 37 CFR 1.821 - 1.825.

20. ☐ A second copy of the published International Application under 35 U.S.C. 154(d)(4).

21. ☐ A second copy of the English language translation of the International Application under 35 U.S.C. 154(d)(4).

22. ☐ Express Mail Label No.

23. ☒ Other items or information:

    Application Data Sheet   Drawings (9 Sheets)

    Notice of Priority   Cited References (4)

    PCT/IB/304   PTO-1449

    PCT/IB/308

PCTUS1/REV06

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

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The following fees are submitted:		CALCULATIONS	PTO USE
24. ☒ Basic national fee $300		$ $300.00	
25. ☒ Examination fee If International preliminary examination report prepared by USPTO and all claims satisfy provisions of PCT Article 33(1)-(4) . . . . $100 All other situations $200		$ $200.00	
26. ☒ Search fee . . . . Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority . . . . $100 International Search Report prepared and provided to the Office . . . . $400 All other situations $500		$ $400.00	
TOTAL OF 24, 25 and 26 =		$ $900.00	

☐ Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is $250 for each additional 50 sheets of paper or fraction thereof.						
Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof (round **up** to a whole		RATE		
- 100 =	0 /50 =	0		x $250.00	$ $0.00	

Surcharge of $130.00 for furnishing the oath or declaration later than months from the earliest claimed priority date (37 CFR 1.492(e)).			$	

CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE		
Total claims	10 - 20 =	0	x $50.00	$ $0.00	
Independent claims	3 - 3 =	0	x $200.00	$ $0.00	
MULTIPLE DEPENDENT CLAIMS (if applicable)		☐ +	$360.00	$ $0.00	

	CALCULATIONS	
TOTAL OF ABOVE CALCULATIONS =	$ $900.00	
☐ Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.	$ $0.00	
SUBTOTAL =	$ $900.00	
Processing fee of **$130.00** for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).	$ $0.00	
TOTAL NATIONAL FEE =	$ $900.00	
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). $40 per property +	$ $0.00	
TOTAL FEES ENCLOSED =	$ $900.00	
	Amount to be $	
	Amount to be $	

a. ☐ A check in the amount of $ _____ to cover the above fees is enclosed.

b. ☐ Please charge my Deposit Account No. _____ in the amount of _____ to cover the above fees.
A duplicate copy of this sheet is enclosed.

c. ☒ The Director is hereby authorized to charge any additional fees which may be required, or credit any overpayment
to Deposit Account No. ___15-0030___ . A duplicate copy of this sheet is enclosed.

d. ☒ Fees are to be charged to a credit card. **WARNING: Information on this form may become public. Credit card information should not be included on this form.** Provide credit card information and authorization on PTO-2038.

NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.

SEND ALL CORRESPONDENCE TO:

Customer Number: 22850

Surinder Sachar
Registration No. 34,423

_____
SIGNATURE
Gregory J. Maier
_____
NAME
25,599
_____
REGISTRATION NUMBER